

A photograph of a sunset over the ocean. The sun is a bright, glowing orb in the upper center, with its light reflecting down the center of the water, creating a shimmering path. The sky is a pale, hazy blue, and the water is a dark, textured blue. The overall mood is serene and atmospheric.

# **AeroCom**

**the 3<sup>rd</sup> workshop  
at NASA-GISS, Dec 2004**

***assessment of measurements and  
of efforts in global modeling***

# Goals

- **identify sub-process, sub-regional and seasonal uncertainties**
  - differences of the final product (forcing) ...
  - differences of global averages ...
  - differences of annual averages ...  
... only tell part of the story !
- **assess available data and appropriateness**
  - the strength of model evaluations depends on
    - ... data accuracy
    - ... data representation (temporal and spatial)
- **encourage and strengthen interactions between modeling and data communities**
  - illustrate data needs in modeling
  - demonstrate capabilities of measurements

# Workshop - Outline

- **DAY 1 - aerosol cloud interactions**
  - how good are global data-sets on clouds ?
  - do 'observed' correlations surprise ?
  - how to test and improve modeling ?
- **DAY 2 – towards aerosol direct forcing**
  - how well are aerosol properties understood ?
  - what are uncertainty impacts on forcing ?
  - how do simulations compare to data?
- **DAY 3 – forcing and climate**
  - how do clouds alter direct aerosol forcing ?
  - what is natural and what is anthropogenic ?
  - can we recommend forcing efficiencies?